

Curated Commons: The Maryland Model

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CAPAL16: Cossard & Hamidzadeh, May 29 2016

Academic Libraries are Campus Assets

Traditionally,
first for physical collections
second for the building, the real estate asset

adoption of digitally delivered resources
has eventuated ...

...a reversal

The secondary real estate asset,
has become primary

library facilities are valuable:

1. size
2. campus location
3. building infrastructure
4. cyber-infrastructure

Changed Service Models to meet the reallocation of collection space

since the 1990s, the library *commons* model
has been developed

for example:

1. learning *commons*
2. science *commons*
3. research *commons*
4. scholars' *commons*



Pros & Cons of Current Model

ADVANTAGES

- keeps building within library control
- meets large campus population user needs
 - democratically provides space for:
 - technology
 - study
 - collaboration

Pros & Cons of Current Model

CHALLENGES

- requires upfront investment
- does not support necessarily specialized needs
 - fixed not flexible walls



Why is this Model Risky?

Upfront investment may only have short-term relevance...

...technology changes at fast pace...

...by the time funding is secured and construction is complete technology may be outdated

Why should this Model Evolve?

Research and teaching continues to evolve...

...towards specialization...

...iterative research questions &
methods...

...and small science

BIG SCIENCE

- well funded by national agencies
- multi-year projects that justify fixed labs
- cyber-infrastructure initiatives are disciplinary or nationally scoped
- standardized data practices that facilitate data sharing (scholarly communication)



What is *small science*?

- hypothesis-driven research led by a single principal investigator, in which progress and reward are contingent on generating and analysing one's own data
- research is done by graduate students collecting data sets, managing and processing data in the course of the project
- limited research funding
- short-term use of scientific instruments

Why Should Libraries Pay Attention?

- small science researchers span many fields producing many different forms of highly valuable data
- over the long term, small science is expected to produce more data than BIG SCIENCE
- cyber-infrastructure is lacking
- increasingly seeking assistance with their data problems



small scientists & small librarians **create BIG RESULTS**

- small scientists need assistance with data management, curation, and sustained accessibility
- data management should be organized up front, otherwise it is very expensive and inefficient
- demonstrations of library infrastructure early in the research is essential to building lasting partnerships



What is Needed?

Flexible spaces...

...focusing on ephemeral instantiation...

... building infrastructure stability...

...cyber-infrastructure accessibility...

...cost savings of low overhead...

...facility to rent or borrow cutting edge
technical instrumentation



The Maryland Model:

Libraries supporting broad academic discourse, that is, diverse activities that have short-term physical life

conferences, symposia, public education
gaming, competitions, hack-a-thons
rapid prototyping, fabrication, charettes
performance testing, small science



Curated Commons: The Maryland Model

sustained transformation of library facilities,
cyber- and building infrastructures...

...flexible reconfigurable space with...

...cutting edge technology...

...sustainable funding streams



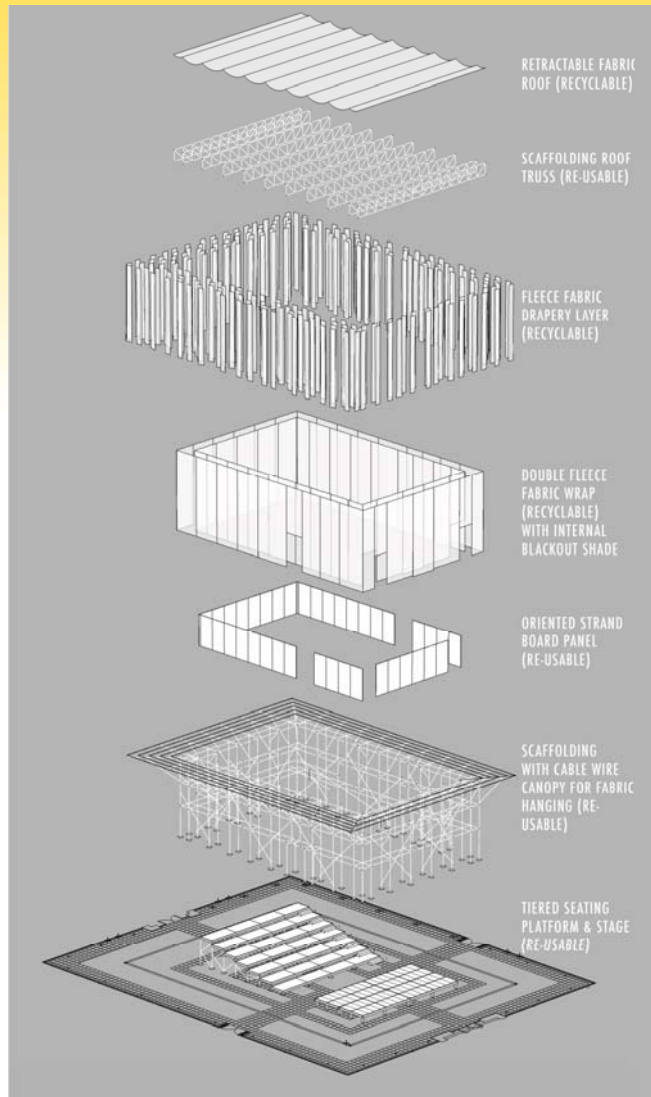
Library Building Infrastructure

- electrical, telecommunications, data access
 - plumbing
- high ceilings and natural light
- smooth load-bearing floors
 - loading docks
 - elevators

**Like a live theatre or film studio,
the basic structure,
when not in service to a
particular script or instantiation,
will house the basic
infrastructure and hook-ups for
the design to come.**



Theater Design



demonstrating how temporary structures can be added to a permanent floor plan.

Willow Theater / Tim Lai
Architect + Brad
Steinmetz Stage Design,
archdaily.com, 10/23/2013.

Exploded Diagram



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Pop Up

Definition: adj., used to describe a machine, book, etc. that has parts that push out from a surface or from inside;

used to describe a shop, restaurant, etc. that operates temporarily and only for a short period when it is likely to get a lot of customers

Pop Up: Curated Commons

Attributes:

- enclosures are put-up quickly by design
- short-term leased specialized technology
- corporate sponsorship of events and in-kind gifts of technology are funding streams



Pop Up: Modularity



Modular units can be joined together or positioned separately, depending on the need and task; create a meeting room or position separately to create a semi-private place where one can work undisturbed.



Designed by Dymitr Malcew.

Brouns, B. "Break out in treehouse-inspired furniture," *soyouknowbetter.com*, 2/3/2014



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Pop Up: Library



Building within a building, part of an 18-week series of events exploring how libraries can remain relevant – even essential – resources.

Designed by Morag Myerscough & Luke Morgan — The Pavilion, Library of Birmingham.



Wilkes, B. "Lobby pavilion keeps Birmingham library at the forefront of debate...", *we-heart.com*, 10/2/2013



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Pop Up: Hotel



This cabin made from scaffolding is one of 22 temporary hotel rooms that popped up around Mannheim, Germany, as part of the Hotel Shabby Shabby event for the city's Theater der Welt festival.



The Hedonist was designed by Portuguese architects Nuno Pimenta and Frederico Martins.

“Hotel Shabby Shabby’s 22 pop-up guest rooms included a recycled riverside cabin,” *de zeen magazine*, 10/12/2014.



Pop Up Makerspace: Harvard

Presented by Harvard Graduate School of Education at the MIT Media Lab, 10/10/2015

Pop-Up Makerspace: The Future of Learning Laboratory

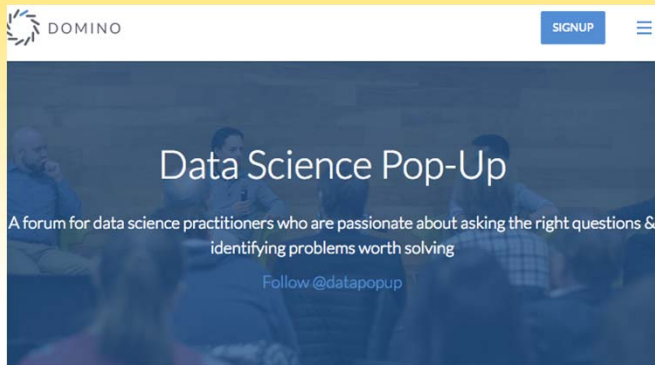
“At our pop-up makerspace , you’ll have the opportunity to...open up new possibilities...combining high-tech and low-tech explorations in art, science and engineering



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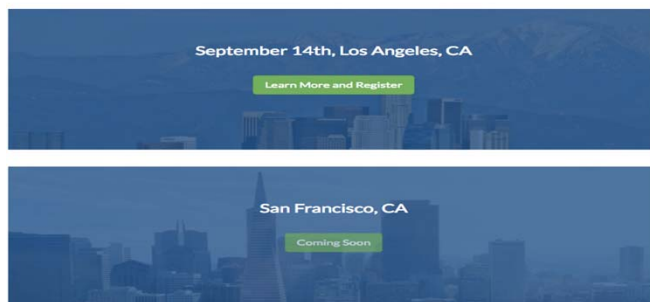
Pop Up: Virtual Conferences



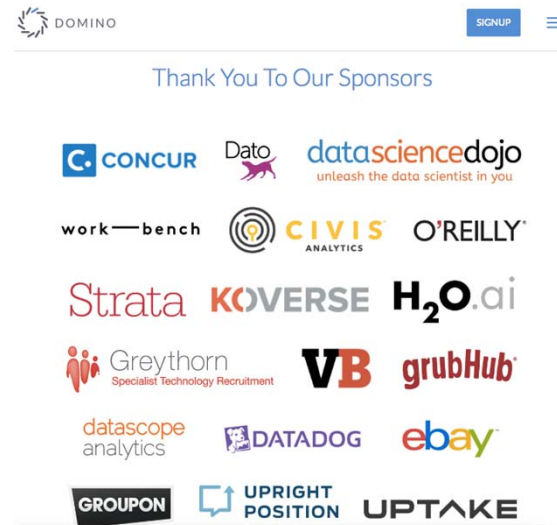
"Data Science Pop-Up is a smaller, more intimate conference alternative, to help fill that need for the data science community to get together from time to time."

— Dylan Tweney, Editor-in-Chief VentureBeat

Upcoming Events



Demonstrates corporate sponsorship,
<https://www.dominodatalab.com/datapopup>



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Pop Up Labs: University of Chicago

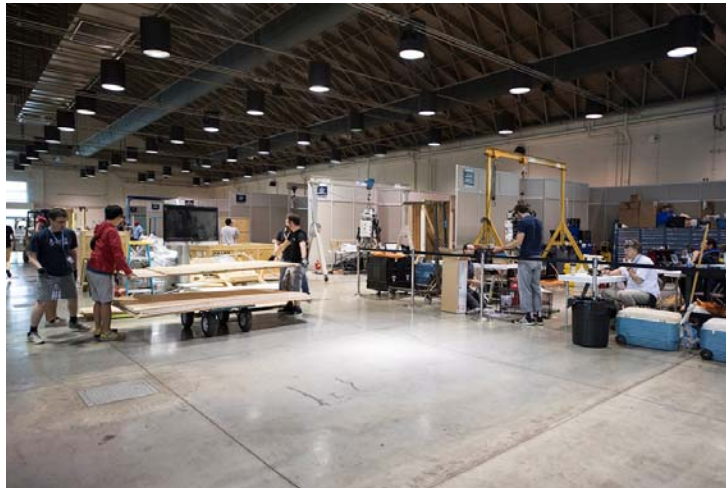


A lab-like environment to facilitate conversation between research faculty and other cultural thinkers. Each Pop-up Lab acts as a catalyst, bringing together a wide variety of disciplines and vocations, to engage in lively discussion on particular topic.

Pop Up: Engineering Labs



Competitive energy rises as teams peer into each other's pop-up laboratories to get first glimpses of robot rivals.



DARPA Robotics Challenge, "Move-in day for the DRC Finals," *Robohub.org*, 6/2/2015.



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Bibliography

Agresta, M., "What Will Become of the Library? How It Will Evolve as the World Goes Digital," *Slate Magazine*, April 30, 2014.

Atkins, S. *The Academic Library in the American University*, American Library Association, 1991.

Boone, M. D. "Steering the cybrary into the twenty-first century: who is the leader?" *Library Hi Tech*, vol. 19, issue 3, 2001, pp. 268-289.

Carlson, S. "Thoughtful Design Keeps New Libraries Relevant," *the Chronicle of Higher Education*, 52, no. 6, (Sept. 30, 2005): B1.

Cragin, M., *et al.*, "Data Sharing, small science and institutional repositories," *Philosophical Transactions: Mathematical, Physical and Engineering Sciences*, Vol. 368, No . 1926, e-Science: past, present and future II (13 September 2010), pp. 4023-4038

Drew, Wilfred Bill. "Wireless Networks: New Meaning to Ubiquitous Computing," *Journal of Academic Librarianship*, vol. 29, no. 2, February 2003, pp. 102-106.

Dumon, O. "Innovations in Science: The Pop-up Retail Experience Comes to Science," *HuffingtonPost.com*, 3/18/2015



Bibliography

Graham, R., "Wireless Use in libraries," *Library Hi-Tech*, vol. 20, no. 4, 2002.

Grush, M. "It's All About Flex-ability," *Campus Technology* 22, no.10, June 2009, pp. 31-37.

Konkiel, S. "New Social Science Research Commons Launches at IU Bloomington," *InULA Notes*, 25, no. 2, Fall 2013.

Macchi, M., U. Rizzo, and L. Ramaciotti (2014) "From Services Dealers to Innovation Brokers," *Journal of Intellectual Capital*, vol. 15, iss. 4, July 2014, pp. 554-575.

Mathews, B. *Think Like a Start-up: A White Paper to Inspire Library Entrepreneurialism*, Virginia Tech, 2002.

Mattern, S. "Library as Infrastructure: Reading room, social service center, innovation lab. How far can we stretch the public library?," *PlacesJournal*, June 2014.

Monahan, Torin. 2002. "Flexible Space & Built Pedagogy: Emerging IT Embodiments." *Inventio* 4 (1): 1-19.

Muñoz, T. *Digital Humanities in the Library Isn't a Service*, August 19, 2012.



Bibliography

Raisinghani, M., "Wireless library aids student productivity," *THE Journal*, vol. 30, no. 4, November 2002.

Reichman, J. H., and Paul F. Uhler. "A Contractually Reconstructed Research Commons for Scientific Data in a Highly Protectionist Intellectual Property Environment". *Law and Contemporary Problems* 66 (1/2), 2003, pp. 315–462.

Schwartz, M. "Tomorrow, Visualized," *Library Journal*, September 18, (2013)

Slaughter, S., B.J. Taylor, and K.O. Rossinger. "A Critical Reframing of Human Capital Theory in US Higher Education," in *Critical Approaches to the Study of Higher Education*, A. Martinez-Aleman, ed. Baltimore: Johns Hopkins University Press, 2015.

Stuart, C. *The Academic Library Building in the Digital Age: A Study of Construction, Planning, and Design of New Library Space*. Chicago: ACRL, 2010.

Watson, Les. *Better Library and Learning Space: Projects, trends, ideas*. London: Facet Publishing, 2014.

